

## ABSTRACT OF THE DISCLOSURE

A system and method for receiving a communication signal includes a timing source that generates a stable timing signal and a stabilized local oscillator that receives the stable timing signal and uses the stable timing signal as an input to generate a stabilized oscillator signal. An antenna receives the communication signal at a receiving frequency, and the communication signal is filtered and amplified. A low noise block converter uses the stabilized oscillator signal to convert the receiving frequency of the communication signal to a stable lower frequency. A fiber optic transmitter converts the communication signal to an optical signal and transmits the optical signal over fiber optic cable. A fiber optic receiver receives the optical signal over the fiber optic cable. The optical signal then can be converted to an electrical signal.

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